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Product datasheet for SC128251

ERCC1 (NM_202001) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERCC1 (NM_202001) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERCC1
Synonyms:	COFS4; RAD10; UV20
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_202001 edited
GGGGACCTGACGCTATGGAGCTCTCGGAGTTTTGTGGGGGACGGCTGTGAGTGGGGGGTT
CCTGCTGCGGGATGAGAACGTAGACGCCAGTGGCTCACTCGCTCCTGGCACCTTCCCTTT
CAGGCTCCAGATGGACCCTGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCC
AGCAAGGAAGAAATTTGTGATACCCCTCGACGAGGATGAGGTCCCTCCTGGAGTGGCCAA
GCCCTTATTCCGATCTACACAGAGCCTTCCCACTGTGGACACCTCGGCCCAGGCGGCCCC
TCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCC
CACAGGGTCAGAGCCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAA
ATCCAACAGCATCATTGTGAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCG
CAACGTGCCCTGGGAATTTGGCGACGTAATTCCCGACTATGTGCTGGGCCAGAGCACCTG
TGCCCTGTTCCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACATCCATGGGCGGCT
GCAGAGCCTGGGGAAGAACTTCGCCTTGCGGGTCCTGCTTGTCCAGGTGGATGTGAAAGA
TCCCCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGAT
CCTCGCCTGGAGCCCCGAGGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCA
GAAACCAGCGGACCTCCTGATGGAGAAGCTAGAGCAGGACTTCGTCTCCCGGGTGACTGA
ATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCTCCTGACCACATT
TGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCT
GGGCCCTCAGAAAGTAAGAGCTCTGGGAAAGAACCCAAGGAGTTGGGGGAAGGAGAGAGC
CCCAAATAAACACAACCTGAGACCCCAAAGTTTTAAGGTGAAAAAAGAACCAAAGACCAG
ACACAGTGGCTTCCGCCTGTAATCCCAACATTTTGGGAGGCCAAGGCGGGAGGACTGCTT
GAGGCCAGAAGTTGGAGACCAGCCTGGGCAAGTGGACACCTCATTTTTACTAAAAAAAAA
AAAAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_202001 unedited
NGGCCGGTTAGATATTTGTATACGACTCATATAGGCGGCCGCGCATTCCCGGGATATCGT
CGACCCACGCGTCCGTGGGGACCTGACGCTATGGAGCTCTCGGAGTTTTGTGGGGGACGG
CTGTGAGTGGGGGGTTCCTGCTGCGGGATGAGAACGTAGACGCCAGTGGCTCACTCGCTC
CNTGGCACCTTCCCTTTCAGGCTCCAGATGGACCCTGGGAAGGACAAAGAGGGGGTGCCC
CAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGAGGATGAGGTC
CCTCCTGGAGTGGCCAAGCNNCCTTATTCCGATCTACACAGAGCCTTCCCACTGTGGACA
CCTCGGCCCAGGCGGCCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAG
GGGCTGGNGGGCCCACCGTGCCCCACAGGGTCAGAGCCCCTGGCAGGAGAGACGCCCAAC
CAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGTGAGCCCTCGGCAGAGGGGC
AATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGNGAATTTGGCGACGTAATTCCCGAC
TATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCCTCAGCCTCCGCTACCACAACCTGCAC
CCAGACTACATCCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCTTGNCGGTCCTG
CTTGTCCCAGTGGATGTGAAAGATCCCCCAGCAGCCCTCAAGGAGCTGGCTAAGATGTGT
ATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGAGAAGCTGGGCGGTACCTGG
AGACCCTACAGCCTATGAGCAGAAACCAACGGACCTCCTGATGGAGAAGCTAGAGCAGG

Restriction Sites: Please inquire

ACCN: NM_202001

Insert Size: 1200 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_202001.1, NP_973730.1

RefSeq Size: 1273 bp

RefSeq ORF: 972 bp

Locus ID: 2067

UniProt ID: P07992

Cytogenetics: 19q13.32

Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

Gene Summary:

The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand. [provided by RefSeq, Oct 2009]
Transcript Variant: This variant (1) represents use of an alternate promoter and 5' UTR and uses a distinct splice pattern in the 3' coding region and 3' UTR, compared to variant 2. The resulting isoform (1) has a longer and distinct C-terminus, compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.